

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Previously Presented) A combustor liner for a gas turbine, the combustor liner having a substantially cylindrical shape; and a plurality of axially spaced annular grooves formed in an outside surface of said combustor liner, each groove having a uniform, substantially semi-circular cross-section and extending continuously about a circumference of said liner.

2. (Canceled).

3. (Original) The combustor liner of claim 1 wherein said grooves are arranged transversely to a direction of cooling air flow.

4.-7. (Canceled).

8. (Original) The combustor liner of claim 1 wherein said grooves are angled relative to a direction of cooling air.

9. (Previously Presented) A combustor for a gas turbine, the combustor including a liner having a substantially cylindrical shape; a flow sleeve surrounding said liner; a first plurality of axially spaced, continuous circumferential grooves formed in an outside surface of said liner, angled relative to a direction of cooling air flowing between said liner and said flow sleeve; and a second plurality of axially spaced, continuous circumferential grooves criss-crossed with said

first plurality of axially spaced circumferential grooves wherein said first and second plurality of axially spaced circumferential grooves are uniformly curved in cross-section.

10. (Previously Presented) A combustor liner for a gas turbine, the combustor liner having a substantially cylindrical shape; and a plurality of axially spaced annular grooves formed in an outside surface of said combustor liner, each groove extending continuously about a circumference of said liner; wherein said grooves are semi-circular in cross-section, based on a diameter D , and wherein a depth of said grooves is equal to about 0.05 to $0.50D$.

11. (Original) The combustor liner of claim 10 wherein a center-to-center distance between adjacent grooves is equal to about $1.5-4D$.

12.-13. (Canceled).

14. (Original) The combustor liner of claim 10 wherein said grooves are arranged transversely to a direction of cooling air flow.

15. (Original) The combustor liner of claim 10 wherein said grooves are angled relative to a direction of cooling air flow.

16. (Previously Presented) A combustor liner for a gas turbine, the combustor including a liner having a substantially cylindrical shape; a first plurality of axially spaced, continuous circumferential grooves formed in an outside surface of said liner, angled relative to a direction of cooling air flow; and a second plurality of axially spaced, continuous circumferential grooves criss-crossed with said first plurality of axially spaced circumferential grooves, and wherein said

BUNKER
Appl. No. 10/065,495
November 9, 2005

first and second plurality of axially spaced circumferential grooves are smoothly curved in cross-section.

17. (Canceled)